INDEAN UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

Haltmeyer

Application No.

10/076,948

Group Art Unit:

2182

Filed:

19 February 2002

Examiner:

To be assigned

For:

THOROUGH OPERATION RESTRICTION

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MAY 1 4 2002

Technology Center 2100

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

Enclosed are copies of the following reference documents.

Patent No.

Inventor(s)

Date of Publication

US5,802,397

Greenstein et al.

1 September 1998

Summary of the references:

U.S. Patent No. 5,802,397 to Greenstein et al. discloses protection against unwanted I/O accesses in main storage blocks/page frames independent of any storage protection provided against unwanted CPU accesses. An I/O protection array is used containing one-bit I/O keys used only for protecting which respectively protect associated blocks/page frames from unwanted accesses by I/O programs. Each one-bit I/O key is used to allow or disallow I/O

accesses into an associated storage block. Any CPU access is not affected by the I/O storage key. No I/O program key is used and therefore no key compare operation is required. However, the embodiment is compatible with use of CPU storage protection using CPU storage keys in either real form in a CPU storage key array, or in virtual form in page table entries without using any CPU storage key array.

* * * * *

The above-described reference is submitted herewith along with form PTO-1449 for the convenience of the Examiner. Consideration of the foregoing and the making of the references formally of record in the instant application are respectfully requested.

Respectfully submitted,

Royal W. Craie

Reg. No. 34,145

Attorney for Applicants

Date

Law Offices of Royal W. Craig 10 North Calvert Street Suite 153 Baltimore, Maryland 21202

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PTO/SB/08A (10-96)
Approved Se through 10/31/99. OMB 0651-0031
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Substitute for form 1449A/PTO
INFORMATION DISCLOSURE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known						
Application Number	10/076,948					
Filing Date	February 19, 2002					
First Named Inventor	Haltmeyer, John M.					
Group Art Unit	2182					
Examiner Name	To be assigned					
Attorney Docket Number	HALTMEYER-PA-2					

			U.S. PATENT DOCL	JMENTS	
No. Number (if known)		Kind Code ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1	5,802,39		Greenstein et al.	09-01-1998	- gassi appear
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					Technology Center 210
	No.1	Cite No. ¹ Number	Cite No.1 Number Kind Code ² (if known)	Cite Number Kind Code ² (if known) 1 5,802,397 Greenstein et al.	Cited No.1 Number Kind Code (if known) 1 5,802,397 Greenstein et al. Name of Patentee or Applicant Octed Document MM-DD-YYYY Greenstein et al. 09-01-1998

FOREIGN PATENT DOCUMENTS								
Examiner Cite	F	oreign Patent	Docum	nent	Name of Patentos or	Date of Publication of	Pages, Columns, Lines,	T6
No.1	Office ³	Number4	LUE	Kind Code ⁵ (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	
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Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.